Frederick Tangai Samanga

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EDUCATION

- **University of Zimbabwe** — Harare, Zimbabwe
  Bachelor of Science Honours in Computer Engineering — *Oct. 2020 – Sept. 2024*

EXPERIENCE

- **Data-Age Systems** — Harare, Zimbabwe
  Software Developer — *May 2023 - November 2023*
  - **Spring Boot**: At Data-Age Systems, I explored the development of various mockup projects using Spring Boot, focusing on building robust back-end systems. I gained hands-on experience in creating RESTful APIs, which facilitated seamless communication between the front end and back end of applications. My projects included developing functionalities for portfolio and e-commerce websites, where I implemented core features such as user authentication, data management, and integration with third-party services. I also utilized Spring Boot's built-in tools for dependency injection, configuration management, and security, ensuring the applications were scalable and maintainable. This experience enhanced my understanding in Java programming and deepened my understanding of modern web application development practices, allowing me to effectively contribute to the company's projects beyond its primary focus on WordPress.
  - **Word Press**: During my internship at Data-Age Systems, I primarily focused on the development and maintenance of a wide range of websites using WordPress. I created custom websites, including portfolio, e-commerce, and profile sites, while also ensuring the upkeep of existing projects. My responsibilities included developing tailored plugins and themes to enhance site functionality, and providing clients with unique features that aligned with their business goals. Additionally, I implemented AI chatbots across various websites to improve user engagement and support, providing real-time assistance to visitors. This role allowed me to deepen my understanding of WordPress CMS while honing my skills in backend development and user experience design.
  - **PHP**: Developed custom WordPress plugins and themes to enhance site functionality, and integrated AI chatbots to improve user interaction and support across various websites.

- **Gawps** — Harare, Zimbabwe
  Developer/IT Officer — *Jan 2023 - June 2023*
  - **WordPress**: Developed a complete e-commerce website for Gawps using WordPress and Elementor, creating a custom theme tailored to their branding and functionality needs. Managed the entire development cycle, from initial layout and design to final implementation, ensuring seamless integration of e-commerce functionalities, responsive design, and user-friendly navigation. Leveraged Elementor for dynamic and visually engaging page designs, resulting in an optimized, modern platform that met Gawps' business objectives and enhanced their online presence
  - **PHP Plugin Development**: Contributed to the project by developing custom PHP plugins that extended the website's functionality and tailored features to meet specific client needs. This involved understanding the unique requirements of Gawps and implementing solutions that improved site performance and user engagement. I focused on creating plugins that allowed for easy content management, product filtering, and SEO capabilities, ensuring the website remained competitive in the e-commerce space.
  - **UI/UX Design**: Designed the user interface (UI) and user experience (UX) for the e-commerce website, prioritizing intuitive navigation and visually appealing aesthetics. Utilizing tools like Figma, I created wireframes and prototypes to map out the user journey and ensure a cohesive design.

PROJECTS

- **Book Cataloging System**: Developed a book cataloging system using Spring Boot and PostgreSQL, testing API endpoints with Postman for seamless functionality.
- **Profile Website**: Developed a simple company profile website using Spring Boot, PostgreSQL, and Thymeleaf, featuring dynamic content rendering and efficient data management.
- **Intelligent Greenhouse Resource Management System**: Created an intelligent greenhouse resource management system with Python, TensorFlow Lite, and Keras, deployed on a Raspberry Pi for real-time monitoring.

PROGRAMMING SKILLS

- **Languages**: Java, SQL   **Technologies**: Git, Spring Boot, React, Next.js PostgreSQL, WordPress, Tailwind CSS